Abstract

The invention relates to a method for operating a piezoelectric motor having a stator in the form of a hollow-cylindrical oscillator, the at least one front side of which has frictional contact with a rotor and which comprises standing wave generators. According to the invention the hollow cylinder is set into a coupled tangential-axial oscillation mode so that the cylinder mainly has tangential and axial oscillatory components. The oscillatory speed maximums of the tangential components are formed on the front sides of the hollow cylinder and those of the axial components directly underneath thereof, wherein the components decrease towards the center of the cylinder height and, in the center of the cylinder height, substantially parallel to the front sides, a nodal line is formed on which the axial oscillatory component adopts the value zero and the tangential components adopt a minimum. With a motor operated in such a manner the kinetic drive energy for the rotor is concentrated in the proximity of the front sides of the hollow cylinder, wherein a mechanical attachment for the motor can be arranged in the central portion on the zero line of the oscillatory speed components.